Annual Review of Nutrition
Volume 8, 1988

CONTENTS

PREFATORY ESSAY

Nutrition Policy: Building the Bridge Between Science and Politics, *James Austin and Catherine Overholt* 1

CARBOHYDRATES

Dietary Fiber, *David Kritchevsky* 301

LIPIDS

Dietary Fat and Cancer Risk: Evidence and Research Needs, *Michael W. Pariza* 167

The Essentiality of N-3 Fatty Acids for the Development and Function of the Retina and Brain, *Martha Neuringer, Gregory J. Anderson, and William E. Connor* 517

PROTEINS, PEPTIDES, AND AMINO ACIDS

Gastrointestinal Absorption of Intact Proteins, *Michael L. G. Gardner* 329

VITAMINS

Inborn Errors of Pterin Metabolism, *Nenad Blau* 185

Regulation of Biotin Enzymes, *Krishnamurti Dakshinamurti and Jasbir Chauhan* 211

Riboflavin-Binding Proteins, *Harold B. White, III, and Alfred H. Merrill, Jr.* 279

The Role of Sunlight in the Cutaneous Production of Vitamin D_3, *A. R. Webb and M. F. Holick* 375

Pantothenic Acid and Coenzyme A in Cellular Modification of Proteins, *Nora Plesofsky-Vig and Robert Brambl* 461

Thiamin and the Brain, *Richard H. Haas* 483

Role of Vitamin-K-Dependent Proteins in Bone Metabolism, *Paul A. Price* 565

(*continued*)

INORGANIC NUTRIENTS

Consequences of Phosphate Imbalance, *Yitshal N. Berner and Moshe Shike* 121

Copper Deficiency in Humans, *D. M. Danks* 235

Molybdenum: An Essential Trace Element in Human Nutrition, *K. V. Rajagopalan* 401

Magnesium in Health and Disease, *Maurice E. Shils* 429

Chromium in Human Nutrition, *Esther G. Offenbacher and F. Xavier Pi-Sunyer* 543

DIET, NUTRITION, AND METABOLIC REGULATION

Effect of Altered Nutritional States on Insulin Receptors, *Martin Adamo, Derek LeRoith, Jean Simon, and Jesse Roth* 149

Cachectin: Its Impact on Metabolism and Nutritional Status, *Lyle L. Moldawer, Stephen F. Lowry, and Anthony Cerami* 585

CLINICAL NUTRITION

Fetal Nutrition, *Frederick C. Battaglia and Giacomo Meschia* 43

Energy Costs of Lactation, *A. M. Prentice and Ann Prentice* 63

Alcohol and Carcinogenesis, *Helmut K. Seitz and Ulrich A. Simanowski* 99

Heredity and Body Fat, *Claude Bouchard and Louis Pérusse* 259

Vitamin E Deficiency and Neurologic Disease, *Ronald J. Sokol* 351

SPECIAL TOPICS

Biochemistry of Vertebrate Olfaction and Taste, *Richard C. Bruch, D. Lynn Kalinoski, and Morley R. Kare* 21

Nutritional Requirements for Growth of Human Lymphocytes, *William Shive and Kathleen Shive Matthews* 81

INDEXES

Subject Index 611

Cumulative Index of Contributing Authors, Volumes 4–8 623

Cumulative Index of Chapter Titles, Volumes 4–8 625